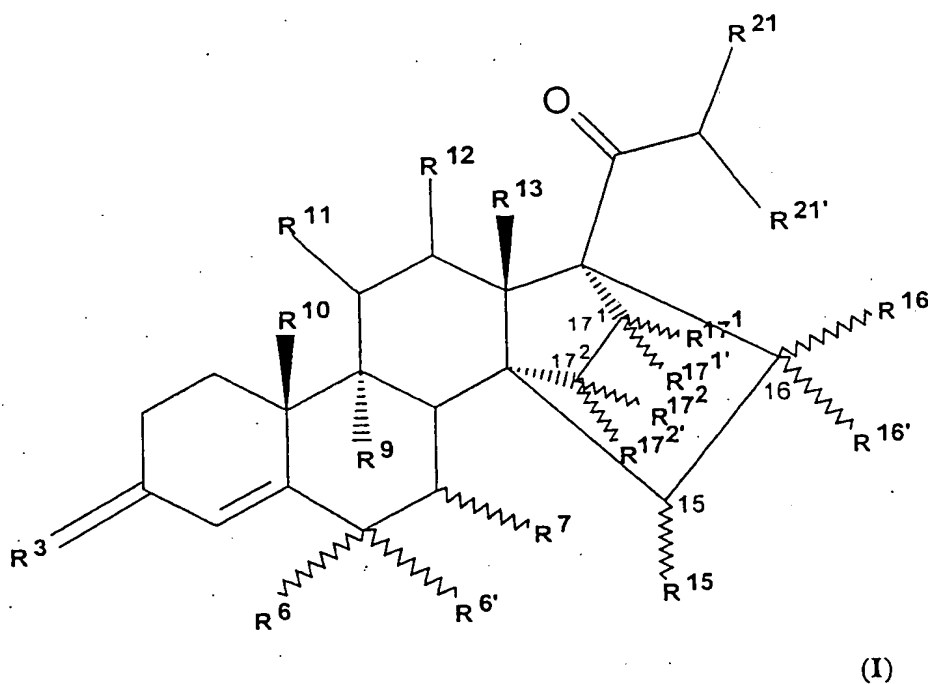


Claims

1. Combination that consists of at least one gestagen and a β -cyclodextrin or γ -cyclodextrin or derivatives of these cyclodextrins, which are obtained by etherification or esterification of free alcoholic functions of the cyclodextrins, whereby the gestagen is a 14,17-C₂-bridged steroid.

2. Combination according to claim 1, whereby the gestagens belong to the group of formula I:



in which

R³ stands for an oxygen atom, the hydroxyimino group, or two hydrogen atoms,

R^6 stands for a hydrogen, fluorine, chlorine or bromine atom or for an α - or β -position C_1 - C_4 alkyl radical, whereby then $R^{6'}$ and R^7 represent hydrogen atoms, or else

$R^{6'}$ stands for a hydrogen, fluorine, chlorine or bromine atom or for a C_1 - C_4 alkyl radical, whereby then $R^{6'}$ and R^7 represent a common additional bond,

R^7 stands for an α - or β -position C_1 - C_4 alkyl radical, whereby then R^6 and $R^{6'}$ represent hydrogen atoms, or else

R^6 and R^7 together stand for an α - or β -position methylene group, and $R^{6'}$ stands for a hydrogen atom, or

R^6 and $R^{6'}$ together stand for an ethylene group or a methylene group, and R^7 stands for a hydrogen atom,

R^9 and R^{10} in each case stand for a hydrogen atom or a common bond,

R^{11} and R^{12} in each case stand for a hydrogen atom or a common bond,

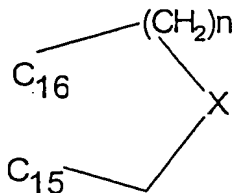
R^{13} stands for a methyl or ethyl group,

R^{15} stands for a hydrogen atom or a C_1 - C_3 alkyl radical,

R^{16} and $R^{16'}$, independently of one another, stand for a hydrogen atom, a C_1 - C_3 alkyl radical or a C_2 - C_4 alkenyl radical or together for a C_1 - C_3 alkylidene group,

R^{15} and R^{16} stand for a common bond, and $R^{16'}$ stands for a hydrogen atom or a C_1 - C_3 alkyl radical, or

1 4 1



atom, and $R^{16'}$ stands for a hydrogen atom,

R¹⁷¹ stands for a hydrogen atom or a C₁-C₃ alkyl radical,

R¹⁷² stands for a hydrogen atom, a C₁-C₃ alkyl radical, or a C₂-C₄ alkenyl radical,

R^{171'} and R^{172'} in each case stand for a hydrogen atom or for a common bond.

R²¹ stands for a hydrogen atom or a C₁-C₃ alkyl radical,

R^{21'} stands for a hydrogen atom, a C₁-C₃ alkyl radical, or a hydroxy group.

3. Combination according to claim 2, whereby the gestagen is a (21S)-21-hydroxy-21-methyl-14,17-ethano-19-norpregna-4,9,15-triene-3,20-dione.

4. Combination according to one of the preceding claims, whereby the cyclodextrin is a β -cyclodextrin.

5. Combination according to one of the preceding claims,
whereby the cyclodextrin and the gestagen

are present with ~~β~~-cyclodextrin in a complex of 1:n

(gestagen : cyclodextrin, $n \geq 1$), and

are present with γ -cyclodextrin in a complex of 1:n ($n \geq 1$) (gestagen : cyclodextrin).

6. Combination according to one of the preceding claims as a pharmaceutical agent.

7. Combination according to claim 6 as a stable, oral formulation.

8. Combination according to claim 6 or 7 for the production of a pharmaceutical agent for treating menopausal symptoms.

9. Combination according to one of the preceding claims 1 to 5 for birth control.

10. Pharmaceutical agent or pharmaceutical preparation that contains a combination according to one of the preceding claims with pharmaceutically compatible adjuvants and vehicles.

11. Pharmaceutical agent or pharmaceutical preparation that contains a combination according to one of the preceding claims for peroral, oral, parenteral, transdermal, pulmonary, nasal, rectal, vaginal or intrauterine use.

12. Use of a combination according to one of the preceding claims 1 to 9 for the production of a medication for treating premenstrual symptoms, such as headaches, depression, water retention and mastodynia.

13. Process for birth control with administration of a combination according to one of claims 1 to 9.

14. Process for stabilization of a gestagen according to Formula I according to claim 2 with use of a β -cyclodextrin or γ -cyclodextrin or derivatives of these cyclodextrins, which are

Sub
a¹

Sub
a²

15. Process for complexing a gestagen according to one of claims 1 and 2 and a β -cyclodextrin or γ -cyclodextrin while being triturated as a dry mixture or by precipitation reaction, preferably co-precipitation.

16. Process for direct pelletizing of a gestagen complex according to one of claims 1 and 2 with a β -cyclodextrin or γ -cyclodextrin with the addition of pharmaceutically compatible adjuvants.

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